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- 5 1. A projection display system, comprising:
(a) a light source;
(b) a polarizing device;
(c) at least one polarizing beamsplitter;
(d) at least one liquid crystal panel for generating an image;
10 (e) a projection source for projecting said image; and
(f) a color component rotator located between said polarization converter and said projection source.
- 15 2. The projection display system of claim 1 wherein said color component rotator is between said polarizing beamsplitter and said light source.
- 20 3. The projection display system of claim 1 further comprising a second color component rotator.
- 25 4. The projection display system of claim 1 further comprising a second liquid crystal display panel for generating a second image.
- 30 5. The projection display system of claim 4 further comprising a second color component rotator.
6. The projection display system of claim 4 further comprising a third liquid crystal display panel for generating a third image.
- 35 7. The projection display system of claim 6 further comprising a second color component rotator.

8. The projection display system of claim 1 wherein said polarizing device is a polarization converter.

5 9. The projection display system of claim 1 further comprising a pair of relay lenses.

10 10. The projection display system of claim 1 further comprising a dichroic filter.

11. The projection display system of claim 1 wherein said color component rotator is located between a polarizer and an analyzer.

15 12. The projection display system of claim 11 further comprising a dichroic filter.

20 13. The projection display system of claim 1 wherein light from said light source is separated into three color components.

25 14. The projection display system of claim 13 wherein said three color components are red, blue and green.

15 15. The projection display system of claim 3 further comprising a third and fourth color component rotator.

30 16. The projection display system of claim 15 further comprising a second liquid crystal display panel for generating a second image and a third liquid crystal display panel for generating a third image.

35 17. A projection display system, comprising:
 (a) a light source;
 (b) a polarization converter;

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23. The projection display system of claim 17 further comprising a pair of relay lenses.

5 25. The projection display system of claim 17
further comprising a pair of dichroic filters.

15 27. The projection display system of claim 17
wherein said projection source projects a projected image
formed from three color components.

29. The projection display system of claim 17
further comprising a third and fourth color component
rotator.

31. The projection display system of claim 30 wherein said fourth color component rotator is located between said projection source and one of said polarizing beamsplitters in which said three images are combined.

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5 38. The method of claim 32 wherein said
polarization state of said second color component is
changed using a color component rotator.

40. The method of claim 39 wherein said first,
15 second and third color components are reflected onto
respective liquid crystal display panels using only two
polarizing beamsplitters.

42. The method of claim 32 further comprising
25 the step of changing the polarization state of said first
color component before generating said image from said
first color component.

43. The method of claim 42 further comprising
30 the step of changing the polarization state of said first
color component again after generating said image from
said first color component.